## **JENNIFER YEO**

yeo.jen@northeastern.edu • 650.534.5263 • Portfolio: jenyeo.github.io/

EDUCATION —	
	1ay 2023
Candidate for Bachelor of Science in Bioengineering, Concentration: Medical Devices	PA: 3.61
Honors and Awards: Dean's List (Fall 2019, Spring 2020, Spring 2021)	
Activities: Biomedical Engineering Society Club 2021 Peer Mentor, College of Engineering 2021-2022 Peer	Mentor
EXPERIENCE -	
MGH Martinos Center for Biomedical Imaging   Boston, MA Jan 2021 – May 2021; Jan 2022	- Present
Intern, Undergraduate Student Researcher	
• Currently designing and fabricating visual stimulus goggles for ultra-high field (7 Tesla) MRI for high res	solution
studies of functional organization of visual cortex using SOLIDWORKS, Arduino, and EAGLE	)
Distal Solutions, Inc.   Westborough, MA  July 2021 - I	Jec 2021
Co-op, Product Development Engineer  Designed more than 10 assembly and test first was including air normachility test are design verification.	n fonas
<ul> <li>Designed more than 10 assembly and test fixtures including: air permeability test, pre-design verificatio tests, simulated use, UV bonding, and press-fits utilizing SOLIDWORKS</li> </ul>	n iorce
• Led development of fixtures from initial concept development through manufacturing using 3D printing curing boxes, and machine shop tools	, UV
• Executed, analyzed, and presented tensile, compression, pressure, and leak testing on company products	S
• Collaborated with a small fast-paced team on proprietary products for a thrombectomy startup	
MGH Martinos Center for Biomedical Imaging   Boston, MA Aug 2020 – I	Dec 2020
Co-op, Undergraduate Researcher	
• Accomplished statistical analysis of functional MRI data in two projects using MATLAB and Linux enviro	nment:
a) Compared cortical-depth-dependent vascular responses driven by visual and physiological stimulus	across
cortical depths in cerebral amyloid angiopathy (CAA) and healthy subjects	
<ul> <li>Co-authored conference abstract of study findings presented at Organization of Human Brain Maj</li> </ul>	pping
b) Characterized and compared modulation of arousal levels on stimulus-driven hemodynamic respons	ses
<ul> <li>Developed MATLAB programs to infer subject's arousal levels based on task behavioral data</li> </ul>	
COTI Laboratory, Northeastern University   Boston, MA Apr 2019 – I	Dec 2020
Undergraduate Researcher	
• Performed 3-D photon transport simulations, including Monte Carlo and diffusion based, in MATLAB for	human
brain atlases to explore the experimental impact of scattering coefficient mismatch	
• Developed initial hardware and software prototypes for a low-cost tomographic optical imager	
<ul> <li>Assisted post doctorate in technological work involving MATLAB and Arduino to operate galvanometers</li> <li>SKILLS</li> </ul>	· · · · · · · · · · · · · · · · · · ·
Technological: SOLIDWORKS, MATLAB, Arduino, Microsoft Office, HTML, CSS, Sketchup, Vectorworks, Min	mics,
Linux Environment, AutoCAD, C++, Javascript	
Fabrication: Laser cutter, 3D printer (SLA and FDM), UV Curing, Soldering Iron, CNC Router, Bandsaw, Che	op Saw,
Laser Welder, Lathe, Split Die Bonder, Hot Box, Drill Press, Table Saws, OMM	
Languages: Burmese (Conversational), Chinese (Basic)	
BACKGROUND AND INTERESTS —	
• Projects: Wireless Muscle Powered Bike Signal, Scoliosis Schroth Wall, Coffee Table, Solar Powered USB	Charger,

- Projects: Wireless Muscle Powered Bike Signal, Scoliosis Schroth Wall, Coffee Table, Solar Powered USB Charger,
   Portfolio Website, LED GPS Watch, Dim Sum Coded Drawstring Backpack, iPhone 6 Microscope Attachment
- Community Involvement: Public Library Girls Who Code; Australian Red Cross; Children's Creativity Museum; UC Berkeley's Girls in Engineering
- Travel (Myanmar, Thailand, Australia, New Zealand, Japan), Swimming, Hand Embroidery

References available upon request.